DAIKIN

EEDEN09-100

technical data

RZQS-DV1

air conditioning systems

R-410A

Split Sky Air

Split - Sky Air

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

Het ISO14001 assures an effective environmental management system in order to help protect human health and the environment from potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

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1 Features

- Outdoor units for pair, twin, triple, double twin application
- The Sky Air Inverter is developed for use in shops, restaurants and small offices. This innovative Daikin unit provides a more comfortable environment and offers great savings in energy consumption to shop and office owners.
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- An inverter driven compressor allows the capacity to be adjusted precisely to match variations in room and outside temperatures.
- During start up, the room can be cooled down or heated very quickly. Once the temperature in the room has reached its set point, the low power operation starts to save energy.
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with either a swing or scroll compressor, renowned for low noise and high energy efficiency
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQS71D7V1B	RZQS100D7V1B	RZQS125D7V1B	RZQS140D7V1B
For combination indoor units + outdoor units	Indoor Units			FCQ71C7VEB	FCQ100C7VEB	FCQ125C7VEB	FCQ140C7VEB
Cooling capacity	Standard	kW		7.1	10.0	12.5	14.0
Heating capacity	Standard	kW		8.0	11.2	14.0	16.0
Power Input	Cooling	Standard	kW	2.28	3.22	4.02	5.36
	Heating	Standard	kW	2.35	3.28	4.06	4.98
For combination indoor units + outdoor units	EER	Nominal		3.11	3.11	3.11	2.61
	COP	Nominal		3.41	3.41	3.45	3.21
	Energy Label	Cooling		B	B	B	D
		Heating		B	B	B	C
	Annual energy consumption		kWh	1,141	1,608	2,010	2,682
	Indoor Units			FCQH71D7VEB	FCQH100D7VEB	FCQH125D7VEB	FCQH140D7VEB
Cooling capacity	Standard	kW		7.1	10.0	12.5	14.0
Heating capacity	Standard	kW		8.0	11.2	14.0	16.0
Power Input	Cooling	Standard	kW	2.15	2.90	3.88	4.65
	Heating	Standard	kW	2.16	2.95	3.79	4.69
For combination indoor units + outdoor units	EER	Nominal		3.30	3.45	3.22	3.01
	COP	Nominal		3.70	3.80	3.69	3.41
	Energy Label	Cooling		A	A	A	B
		Heating		A	A	A	B
	Annual energy consumption		kWh	1,076	1,449	1,941	2,326
	Indoor Units			FBQ71C7VEB	FBQ100C7VEB	FBQ125C7VEB	FBQ140C7VEB
Cooling capacity	Standard	kW		7.1	10.0	12.5	13.4
Heating capacity	Standard	kW		8.0	11.2	14.0	15.0
Power Input	Cooling	Standard	kW	2.18	3.03	3.98	4.77
	Heating	Standard	kW	2.25	3.07	4.11	4.67
For combination indoor units + outdoor units	EER	Nominal		3.26	3.30	3.14	2.81
	COP	Nominal		3.55	3.65	3.41	3.21
	Energy Label	Cooling		A	A	B	C
		Heating		B	A	B	C
	Annual energy consumption		kWh	1,089	1,515	1,990	2,384
	Indoor Units			FHQ71BVV1B	FHQ100BVV1B	FHQ125BVV1B	
Cooling capacity	Standard	kW		7.1	10.0	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.51	3.56	4.55	
	Heating	Standard	kW	2.75	3.85	4.86	
For combination indoor units + outdoor units	EER	Nominal		2.83	2.81	2.75	
	COP	Nominal		2.91	2.91	2.88	
	Energy Label	Cooling		C	C	D	
		Heating		D	D	D	
	Annual energy consumption		kWh	1,254	1,779	2,273	
	Indoor Units			FAQ71BVV1B	FAQ100BVV1B	FDQ125B8V3B9	
Cooling capacity	Standard	kW		7.1	10.0	12.5	
Heating capacity	Standard	kW		8.0	11.2	14	
Power Input	Cooling	Standard	kW	2.44	3.56	4.30	
	Heating	Standard	kW	2.49	3.49	3.97	
For combination indoor units + outdoor units	EER	Nominal		2.91	2.81	2.91	
	COP	Nominal		3.21	3.21	3.53	
	Energy Label	Cooling		C	C	C	
		Heating		C	C	B	
	Annual energy consumption		kWh	1,220	1,779	2,148	
	Indoor Units			FVQ71BV1B	FVQ100BV1B	FVQ125BV1B	
Cooling capacity	Standard	kW		7.1	10.0	12.5	
Heating capacity	Standard	kW		8.0	11.2	14.0	
Power Input	Cooling	Standard	kW	2.53	3.56	4.45	
	Heating	Standard	kW	2.49	3.49	4.36	

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RZQS71D7V1B	RZQS100D7V1B	RZQS125D7V1B	RZQS140D7V1B
For combination indoor units + outdoor units	EER	Nominal		2.81	2.81	2.81	
	COP	Nominal		3.21	3.21	3.21	
	Energy Label	Cooling		C	C	C	
		Heating		C	C	C	
	Annual energy consumption		kWh	1,265	1,779	2,225	

2

2-2 TECHNICAL SPECIFICATIONS				RZQS71D7V1B	RZQS100D7V1B	RZQS125D7V1B	RZQS140D7V1B
Casing	Colour			Ivory White			
	Material			Paintable galvanized steel plate			
Dimensions	Unit	Height	mm	770	1,170	1,170	1,170
		Width	mm	900	900	900	900
		Depth	mm	320	320	320	320
	Packing	Height	mm	900	1,349	1,349	1,349
		Width	mm	980	980	980	980
		Depth	mm	420	420	420	420
Weight	Unit		kg	68	103	103	103
	Packed Unit		kg	72	119	119	119
Heat Exchanger	Dimensions	Length	mm	857	857	857	857
		Nr of Rows		2	2	2	2
		Fin Pitch	mm	1.4	1.4	1.4	1.4
		Nr of Passes		8	10	10	10
		Face Area	m^2	0.641	0.98	0.98	0.98
		Nr of Stages		34	52	52	52
	Tube type			Hi-XSS(8)			
	Fin	Type		WF fin			
		Treatment		Anti-corrosion treatment (PE)			
Fan	Type			Propeller			
	Discharge direction			Horizontal			
	Quantity			1	2	2	2
	Air Flow Rate (nominal at 230V)	Cooling	m^3/min	52	96	100	97
		Heating	m^3/min	48	90	90	90
	Motor	Quantity		1	2	2	2
		Model		KFD-325-70-8A	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
Motor	Speed (nominal)	Steps		8	8	8	8
		Cooling (Standard)	rpm	800	800	850	830
		Heating (Standard)	rpm	745	760	760	760
Fan	Motor	Output	W	70	70	70	70
		Drive		Direct drive			
Compressor	Quantity			1	1	1	1
	Motor	Model		2YC63DXD	JT100G-VD	JT100G-VD	JT100G-VD
		Type		Hermetically sealed swing compressor	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor
		Motor Output	W	1,700	2,200	2,200	2,200
		Crankcase Heater	W		33	33	33
		Starting Method		Inverter driven			
Operation Range	Cooling	Min	°CDB	-5.0	-5.0	-5.0	-5.0
		Max	°CDB	46	46	46	46
	Heating	Min	°CWB	-15	-15	-15	-15
		Max	°CWB	15.5	15.5	15.5	15.5
Sound Level (nominal)	Cooling	Sound Power	dBA	65	67	67	68
		Sound Pressure (Standard)	dBA	49	51	51	52
	Heating	Sound Pressure (Standard)	dBA	51	55	53	54
Sound Level (Night quiet)	Sound Pressure		dBA	47	49	49	50

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RZQS71D7V1B	RZQS100D7V1B	RZQS125D7V1B	RZQS140D7V1B
Refrigerant	Type			R-410A			
	Charge		kg	2.75	3.7	3.7	3.7
	Control			Expansion valve (electronic type)			
	Nr of Circuits			1	1	1	1
Refrigerant Oil	Type			FVC50K	Daphne FVC68D	Daphne FVC68D	Daphne FVC68D
	Charged Volume		l	0.75	1.0	1.0	1.0
Piping connections	Liquid (OD)	Quantity		1	1	1	1
		Type		Flare connection			
		Diameter (OD)	mm	9.52	9.52	9.52	9.52
	Gas	Quantity		1	1	1	1
		Type		Flare connection			
		Diameter (OD)	mm	15.9	15.9	15.9	15.9
	Drain	Quantity		3	3	3	3
		Type		Hole			
		Diameter (OD)	mm	26	26	26	26
	Piping Length	Minimum	m	5	5	5	5
		Maximum	m	30	50	50	50
		Equivalent	m	40	70	70	70
		Chargeless	m	30	30	30	30
	Additional Refrigerant Charge		kg/m	see installation manual 4PW49302-1			
	Installation height difference	Maximum	m	15	30	30	30
	Max. internunit level difference		m	0.5	0.5	0.5	0.5
	Heat Insulation			Both liquid and gas pipes			
Defrost Method				Pressure equalising			
Defrost Control				Temperature			
Capacity Control Method				Inverter controlled			
Safety Devices				High pressure switch			
				Fan motor thermal protector			
				Fuse			
Standard Accessories	Item			Tie-wraps			
	Quantity			2	2	2	2
	Item			Installation manual			
	Quantity			1	1	1	1
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 5m, level difference : 0m.			
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 5m, level difference : 0m			

2-3 ELECTRICAL SPECIFICATIONS				RZQS71D7V1B	RZQS100D7V1B	RZQS125D7V1B	RZQS140D7V1B
Power Supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50	50	50	50
	Voltage		V	220-240			
	Voltage range	Minimum	V	198	198	198	198
		Maximum	V	264	264	264	264
Current	Minimum Ssc (2) value		kVa	Dummy			
	Recomended fuses		A	20	32	32	32
Wiring connections	For Power Supply	Remark		see installation manual 4PW49302-1			
	For connection with indoor	Remark		see installation manual 4PW49302-1			
Power Supply Intake				Outdoor unit only			
Notes				See separate drawings for electrical data			
				(1) European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A smaller than or equal to 75A per phase.			
				(2) Short-circuit power			
						Power supply to the FDQ indoor unit is separate	

3 Electrical data

RZQS71-140DV1

Unit combination		Power supply					Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQH71D7VEB	RZQS71D7V1B			17.0	-	20	-	16.2	0.07	0.3	0.056	0.5
FCQ71C7VEB	RZQS71D7V1B			17.0	-	20	-	16.2	0.07	0.3	0.056	0.5
FCQ35C7VEBx2	RZQS71D7V1B			17.1	-	20	-	16.2	0.07	0.3	0.056x2	0.3x2
FFQ35BV1Bx2	RZQS71D7V1B	50-220	Max. 50Hz264V	17.7	-	20	-	16.2	0.07	0.3	0.055x2	0.6x2
FBQ71C7VEB	RZQS71D7V1B	50-230	Min. 50Hz198V	17.6	-	20	-	16.2	0.07	0.3	0.350	1.1
FBQ35C7VEBx2	RZQS71D7V1B	50-240		18.9	-	20	-	16.2	0.07	0.3	0.140x2	1.2x2
FHQ71BUV1B	RZQS71D7V1B			17.1	-	20	-	16.2	0.07	0.3	0.062	0.6
FHQ35BUV1Bx2	RZQS71D7V1B			17.7	-	20	-	16.2	0.07	0.3	0.062x2	0.6x2
FAQ71BUV1B	RZQS71D7V1B			16.8	-	20	-	16.2	0.07	0.3	0.043	0.3
FVQ71BV1B	RZQS71D7V1B			17.3	-	20	-	16.2	0.07	0.3	0.175	0.8
FCQH100D7VEB	RZQS100D7V1B			25.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.6
FCQ100C7VEB	RZQS100D7V1B			24.7	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	0.7
FCQ50C7VEBx2	RZQS100D7V1B			24.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x2	0.3x2
FCQ35C7VEBx3	RZQS100D7V1B			24.9	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3
FFQ50BV1Bx2	RZQS100D7V1B			25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ35BV1Bx3	RZQS100D7V1B			25.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x3	0.6x3
FBQ100C7VEB	RZQS100D7V1B	50-220	Max. 50Hz264V	25.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.350	1.6
FBQ50C7VEBx2	RZQS100D7V1B	50-230	Min. 50Hz198V	26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.140x2	1.2x2
FBQ35C7VEBx3	RZQS100D7V1B	50-240		27.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.140x3	1.2x3
FHQ100BUV1B	RZQS100D7V1B			24.7	-	32	-	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ50BUV1Bx2	RZQS100D7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ35BUV1Bx3	RZQS100D7V1B			25.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FAQ100BUV1B	RZQS100D7V1B			24.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.049	0.4
FVQ100BV1B	RZQS100D7V1B			25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.320	1.4
FCQH125D7VEB	RZQS125D7V1B			25.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.6
FCQ125C7VEB	RZQS125D7V1B			25.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.0
FCQ60C7VEBx2	RZQS125D7V1B			24.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x2	0.4x2
FCQ50C7VEBx3	RZQS125D7V1B			24.9	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3
FCQ35C7VEBx4	RZQS125D7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x4	0.3x4
FFQ60BV1Bx2	RZQS125D7V1B			25.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x2	0.7x2
FFQ50BV1Bx3	RZQS125D7V1B			26.1	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3
FFQ35BV1Bx4	RZQS125D7V1B			26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4
FBQ125C7VEB	RZQS125D7V1B	50-220	Max. 50Hz264V	26.1	-	32	-	23.4	0.07+0.07	0.3+0.3	0.350	2.1
FBQ60C7VEBx2	RZQS125D7V1B	50-230	Min. 50Hz198V	26.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.350x2	1.1x2
FBQ50C7VEBx3	RZQS125D7V1B	50-240		27.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.140x3	1.2x3
FBQ35C7VEBx4	RZQS125D7V1B			28.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.140x4	1.2x4
FHQ125BUV1B	RZQS125D7V1B			24.7	-	32	-	23.4	0.07+0.07	0.3+0.3	0.130	0.7
FHQ60BUV1Bx2	RZQS125D7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3	RZQS125D7V1B			25.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FHQ35BUV1Bx4	RZQS125D7V1B			26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4
FVQ125BV1B	RZQS125D7V1B			25.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.365	1.6
FDQ125B7V3B	RZQS125D7V1B			24.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.500	4.2
FCQH140D7VEB	RZQS140D7V1B			25.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.6
FCQH71D7VEBx2	RZQS140D7V1B			25.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x2	0.5x2
FCQ140C7VEB	RZQS140D7V1B			25.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.120	1.0
FCQ71C7VEBx2	RZQS140D7V1B			25.0	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x2	0.5x2
FCQ50C7VEBx3	RZQS140D7V1B			24.9	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x3	0.3x3
FCQ35C7VEBx4	RZQS140D7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.056x4	0.3x4
FFQ50BV1Bx3	RZQS140D7V1B			26.1	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x3	0.7x3
FFQ35BV1Bx4	RZQS140D7V1B			26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.055x4	0.6x4
FBQ140C7VEB	RZQS140D7V1B			26.1	-	32	-	23.4	0.07+0.07	0.3+0.3	0.350	2.1
FBQ71C7VEBx2	RZQS140D7V1B	50-220	Max. 50Hz264V	26.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.350x2	1.1x2
FBQ50C7VEBx3	RZQS140D7V1B	50-230	Min. 50Hz198V	27.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.140x3	1.2x3
FBQ35C7VEBx4	RZQS140D7V1B	50-240		28.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.140x4	1.2x4
FHQ71BUV1Bx2	RZQS140D7V1B			25.2	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x2	0.6x2
FHQ50BUV1Bx3	RZQS140D7V1B			25.8	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x3	0.6x3
FHQ35BUV1Bx4	RZQS140D7V1B			26.4	-	32	-	23.4	0.07+0.07	0.3+0.3	0.062x4	0.6x4
FAQ71BUV1Bx2	RZQS140D7V1B			24.6	-	32	-	23.4	0.07+0.07	0.3+0.3	0.043x2	0.3x2

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz - 230V
Cooling
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB/6.0°CWB

2 TOCA means the total value of each OC set

3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits

4 Maximum allowable voltage unbalance between phases is 2%

5 MCA represents maximum input current., MFA represents capacity which may accept MCA (next lower standard fuse rating, min.15A)

6 Select wire size based on the larger value of MCA or TOCA

7 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)

SYMBOLS

MCA	: Min. Circuit Amps (A)
TOCA	: Total Over Current Amps (A)
MFA	: Max. Fuse Amps (A) (See note 7)
MSC	: MSC means the max. current during the starting of compressor. (A)
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor (A)
IFM	: Indoor Fan Motor
FLA	: Full Load Amps
kW	: Fan Motor Rated Output (kW)

3D063321

4 Options

RZQ(S)71-140DV1

Name of option		Kit name			
		RZQ71D7V1B	RZQ100D7V1B	RZQ125D7V1B	RZQ140D7V1B
		RZQS71D7V1B	RZQS100D7V1B	RZQS125D7V1B	RZQS140D7V1B
		-	RZQ100B8W1B	RZQ125B8W1B	RZQ140B8W1B
Central drain plug		EKDK04			
Refrigerant branch piping	Twin	KHRQ22M20TA (KHRQ58T): see note			
	Triple	-	KHRQ127H (KHRQ58H): see note		
	Double-twin	-	-	KHRQ22M20TA (KHRQ58T): see note (3x)	
Demand adapter kit		KRP58M51			

NOTE

1 For RZQ100-140B8W1B in combination with FCQ35-71C, FCQH71C or FCQH71D use the refrigerant branch piping mentioned between brackets.

3TW26739-1F

5 Capacity tables

5 - 1 Combination table

RZQ(S)71-140DV1

Multi Combination Possibilities:

P = Pair	71	100	125	140
2 = Twin	35+35	50+50	60+60	71+71
3 = Triple		35+35+35	50+50+50 (*)	50+50+50 (*)
4 = Double Twin			35+35+35+35 (*)	35+35+35+35

(*) Max capacity depend on outdoor unit

Sky-air		HH Cassette				Thin cassette							2x2 cassette			New Duct (medium ESP)							Ceiling suspended						4way ceiling			Wall mounted		High ESP Duct	Floor standing		
Model name		FCQH71D7VEB	FCQH100D7VEB	FCQH125D7VEB	FCQH140D7VEB	FCQ35C7VEB	FCQ50C7VEB	FCQ60C7VEB	FCQ71C7VEB	FCQ100C7VEB	FCQ125C7VEB	FCQ140C7VEB	FFQ35B8V1B	FFQ50B8V1B	FFQ60B8V1B	FBQ35C7VEB	FBQ50C7VEB	FBQ60C7VEB	FBQ71C7VEB	FBQ100C7VEB	FBQ125C7VEB	FBQ140C7VEB	FHQ35BVV1B	FHQ50BVV1B	FHQ60BVV1B	FHQ71BVV1B	FHQ100BVV1B	FHQ125BVV1B	FUQ71BVV1B	FUQ100BVV1B	FUQ125BVV1B	FAQ71BVV1B	FAQ100BVV1B	FDQ125B8V3B9	FVQ71BV1B	FVQ100BV1B	FVQ125BV1B
RZQ71D7V1B	-	P				2			P				2			2			P				2			P			P			P					
RZQ100D7V1B	RZQ100B8W1B		P			3	2			P			3	2		3	2			P			3	2			P			P			P				
RZQ125D7V1B	RZQ125B8W1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P			P			
RZQ140D7V1B	RZQ140B8W1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2			2					

Sky-air		HH Cassette				Thin cassette							2x2 cassette			New Duct (medium ESP)							Ceiling suspended						4way ceiling			Wall mounted		High ESP Duct	Floor standing		
Model name		FCQH71D7VEB	FCQH100D7VEB	FCQH125D7VEB	FCQH140D7VEB	FCQ35C7VEB	FCQ50C7VEB	FCQ60C7VEB	FCQ71C7VEB	FCQ100C7VEB	FCQ125C7VEB	FCQ140C7VEB	FFQ35B8V1B	FFQ50B8V1B	FFQ60B8V1B	FBQ35C7VEB	FBQ50C7VEB	FBQ60C7VEB	FBQ71C7VEB	FBQ100C7VEB	FBQ125C7VEB	FBQ140C7VEB	FHQ35BVV1B	FHQ50BVV1B	FHQ60BVV1B	FHQ71BVV1B	FHQ100BVV1B	FHQ125BVV1B	FUQ71BVV1B	FUQ100BVV1B	FUQ125BVV1B	FAQ71BVV1B	FAQ100BVV1B	FDQ125B8V3B9	FVQ71BV1B	FVQ100BV1B	FVQ125BV1B
RZQ71D7V1B		P				2			P				2			2			P				2			P			P			P					
RZQ100D7V1B			P			3	2			P			3	2		3	2			P			3	2			P						P				
RZQ125D7V1B				P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P						P			P
RZQ140D7V1B		2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2			2					

NOTES

1 Individual indoor capacities are not given because the combinations are for simultaneous operation (= indoor units installed in the same room)
2 When different indoor models are used in combination, designate the remote control that is equipped with the most function as the main unit.

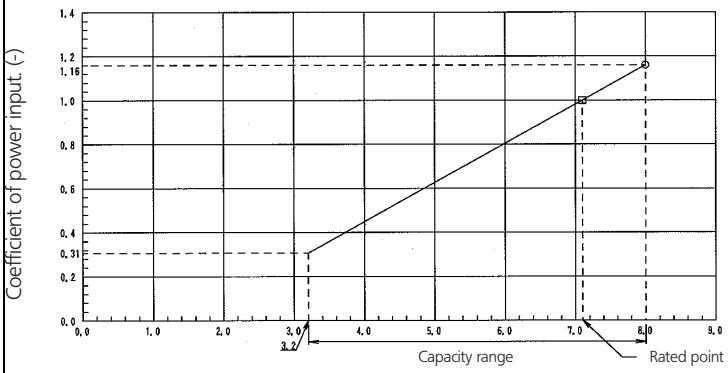
3TW26739-2D

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS71DV1

Cooling



Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	7.29	4.95	0.88	7.28	4.99	1.03	7.50	5.21	1.15	7.20	5.06	1.26
18.0	25	8.37	5.43	0.96	8.11	5.32	1.06	7.83	5.19	1.16	7.52	5.04	1.28
19.0	27	8.54	5.41	0.97	8.28	5.31	1.06	8.00	5.18	1.16	7.68	5.03	1.28
19.5	27	8.63	5.40	0.97	8.37	5.30	1.06	8.08	5.17	1.16	7.76	5.03	1.28
22.0	30	9.07	5.33	0.99	8.80	5.23	1.07	8.51	5.12	1.17	8.18	4.97	1.29
24.0	32	9.43	5.25	0.99	9.15	5.16	1.08	8.85	5.05	1.18	8.51	4.90	1.30

3DTW3172-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH71D	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
AFR (BF)	21 (0.17)	15.5 (0.19)	18 (0.08)	17 (0.10)	19 (0.08)	18 (0.16)

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35Cx2	FHQ35x2
AFR (BF)	10.5x2 (0.28x2)	10x2 (0.25x2)	15x2 (0.15x2)	13x2 (0.2x2)

8. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH71D	FCQ71C	FBQ71C	FHQ71	FAQ71	FVQ71
Cooling	2.15	2.28	2.18	2.51	2.44	2.53

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	2.59	2.61	2.25	2.66

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

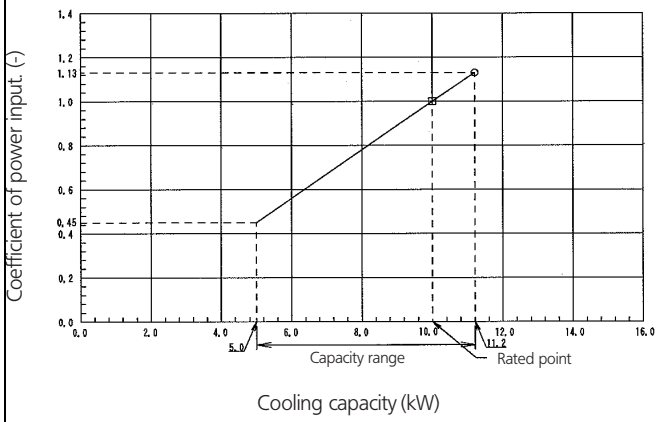
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS100DV1

Cooling



Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	10.2	6.93	0.86	10.2	7.00	1.01	10.5	7.29	1.12	10.1	7.08	1.23
18.0	25	11.8	7.59	0.94	11.3	7.45	1.03	11.0	7.27	1.13	10.5	7.06	1.24
19.0	27	12.0	7.57	0.95	11.6	7.43	1.03	11.2	7.26	1.13	10.8	7.04	1.24
19.5	27	12.1	7.56	0.95	11.8	7.41	1.03	11.3	7.25	1.13	10.9	7.03	1.24
22.0	30	12.7	7.46	0.96	12.3	7.32	1.04	11.9	7.16	1.14	11.4	6.96	1.25
24.0	32	13.2	7.36	0.96	12.8	7.22	1.05	12.4	7.06	1.15	11.9	6.87	1.27

3TW31722-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH100D	FCQ100C	FBQ100C	FHQ100	FAQ100	FVQ100
AFR (BF)	34 (0.17)	23.5 (0.16)	32 (0.13)	24 (0.14)	23 (0.10)	28 (0.19)

(Twin)

Model	FCQ50Cx2	FFQ50x2	FBQ50Cx2	FHQ50x2
AFR (BF)	12.5x2 (0.21x2)	12x2 (0.16x2)	16x2 (0.16x2)	13x2 (0.1x2)

(Triple)

Model	FCQ35Cx3	FFQ35x3	FBQ35Cx3	FHQ35x3
AFR (BF)	10.5x3 (0.28x3)	10x3 (0.25x3)	16x3 (0.15x3)	13x3 (0.2x3)

8. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH100D	FCQ100C	FBQ100C	FHQ100	FAQ100	FVQ100
Cooling	2.90	3.22	3.03	3.56	3.56	3.56

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Cooling	3.58	3.58	3.16	3.90

(Triple)

Model	FCQ35Cx3	FFQ35x3	FBQ35x3	FHQ35x3
Cooling	3.58	3.58	3.16	3.90

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

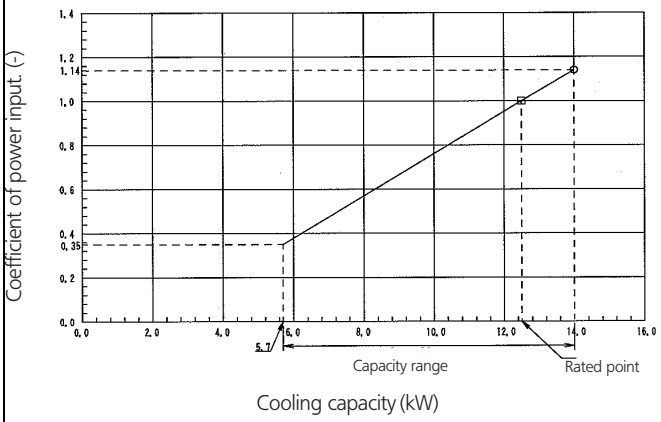
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS125DV1

Cooling



Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	12.8	8.66	0.87	12.8	8.75	1.01	13.1	9.12	1.13	12.7	8.85	1.24
18.0	25	14.7	9.50	0.95	14.2	9.32	1.04	13.7	9.09	1.14	13.2	8.83	1.25
19.0	27	14.9	9.46	0.96	14.4	9.28	1.04	14.0	9.06	1.14	13.4	8.80	1.25
19.5	27	15.1	9.45	0.96	14.7	9.27	1.04	14.1	9.05	1.14	13.6	8.79	1.25
22.0	30	15.9	9.33	0.97	15.5	9.16	1.05	14.9	8.95	1.15	14.3	8.69	1.27
24.0	32	16.5	9.20	0.97	16.0	9.03	1.06	15.5	8.83	1.16	14.9	8.59	1.28

3TW31732-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH125D	FCQ125C	FBQ125C	FHQ125	FDQ125	FVQ125
AFR (BF)	34 (0.19)	27.5 (0.19)	39 (0.16)	30 (0.13)	45 (0.25)	32 (0.16)

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60Cx2	FHQ60x2
AFR (BF)	13.5x2 (0.21x2)	15x2 (0.11x2)	18x2 (0.15x2)	17x2 (0.2x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50Cx3	FHQ50x3
AFR (BF)	12.5x3 (0.21x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.1x3)

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35Cx4	FHQ35x4
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.2x4)

8. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH125D	FCQ125C	FBQ125C	FHQ125	FAQ125	FUQ125
Cooling	3.88	4.02	3.98	4.55	4.45	3.30

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.17	4.22	4.18	4.57

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.17	4.22	4.18	4.57

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.17	4.22	4.18	4.57

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

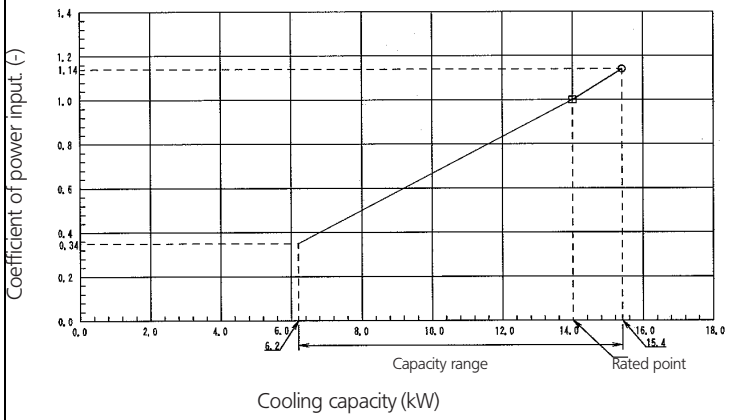
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS140DV1

Cooling



Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	14.1	9.53	0.87	14.0	9.61	1.01	14.4	10.0	1.13	13.9	9.72	1.24
18.0	25	16.1	10.5	0.95	15.6	10.2	1.04	15.1	10.0	1.14	14.5	9.70	1.25
19.0	27	16.5	10.4	0.96	16.0	10.2	1.04	15.4	9.98	1.14	14.7	9.68	1.25
19.5	27	16.6	10.4	0.96	16.2	10.2	1.04	15.5	9.96	1.14	15.0	9.67	1.25
22.0	30	17.5	10.3	0.97	16.9	10.1	1.05	16.4	9.85	1.15	15.7	9.56	1.27
24.0	32	18.2	10.1	0.97	17.6	9.93	1.06	17.1	9.71	1.16	16.4	9.45	1.28

3TW31742-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH140D	FCQ140C
AFR	34	27.5
(BF)	(0.20)	(0.22)

(Twin)

Model	FCQH71Dx2	FCQ71Cx2	FBQ71Cx2	FHQ71x2	FAQ71x2
AFR	21x2	15.5x2	18x2	17x2	19x2
(BF)	(0.17x2)	(0.19x2)	(0.08x2)	(0.1x2)	(0.08x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50Cx3	FHQ50x3
AFR	12.5x3	12x3	16x3	13x3
(BF)	(0.21x3)	(0.16x3)	(0.15x3)	(0.1x3)

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35Cx4	FHQ35x4
AFR	10.5x4	10x4	16x4	13x4
(BF)	(0.28x4)	(0.25x4)	(0.15x4)	(0.2x4)

8. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH140D	FCQ140C
Cooling	4.65	5.36

(Twin)

Model	FCQH71Dx2	FCQ71Cx2	FBQ71Cx2	FHQ71x2	FAQ71x2
Cooling	4.99	5.12	4.95	5.10	5.01

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	5.12	4.89	4.95	5.10

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	5.12	4.89	4.95	5.10

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

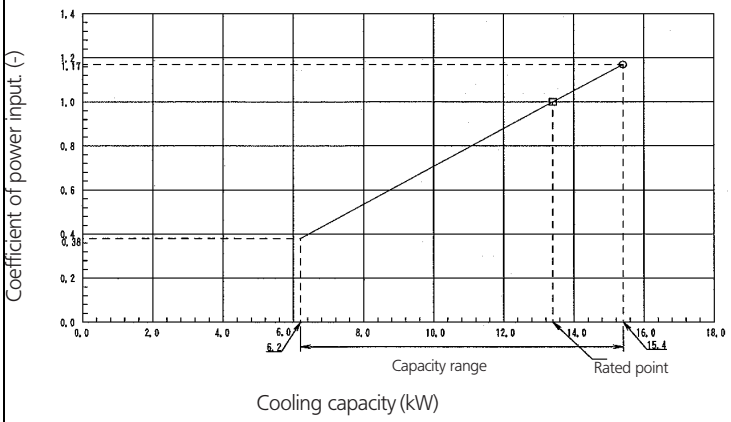
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS140DV1

Cooling



Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	14.1	9.53	0.89	14.0	9.61	1.04	14.4	10.0	1.16	13.9	9.72	1.28
18.0	25	16.1	10.5	0.97	15.6	10.2	1.06	15.1	10.0	1.17	14.5	9.70	1.29
19.0	27	16.5	10.4	0.98	16.0	10.2	1.06	15.4	9.98	1.17	14.7	9.68	1.29
19.5	27	16.6	10.4	0.98	16.2	10.2	1.06	15.5	9.96	1.17	15.0	9.67	1.29
22.0	30	17.5	10.3	0.99	16.9	10.1	1.08	16.4	9.85	1.18	15.7	9.56	1.30
24.0	32	18.2	10.1	0.99	17.6	9.93	1.09	17.1	9.71	1.19	16.4	9.45	1.31

3TW31742-3

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Air flow rate and BF are tabulated below.
   (Pair)

Model	FBQ140C
AFR	39
(BF)	(0.14)

8. Rated power input of each model is tabulated below.
   (Pair)

Model	FBQ140C
Cooling	4.77

SYMBOLS

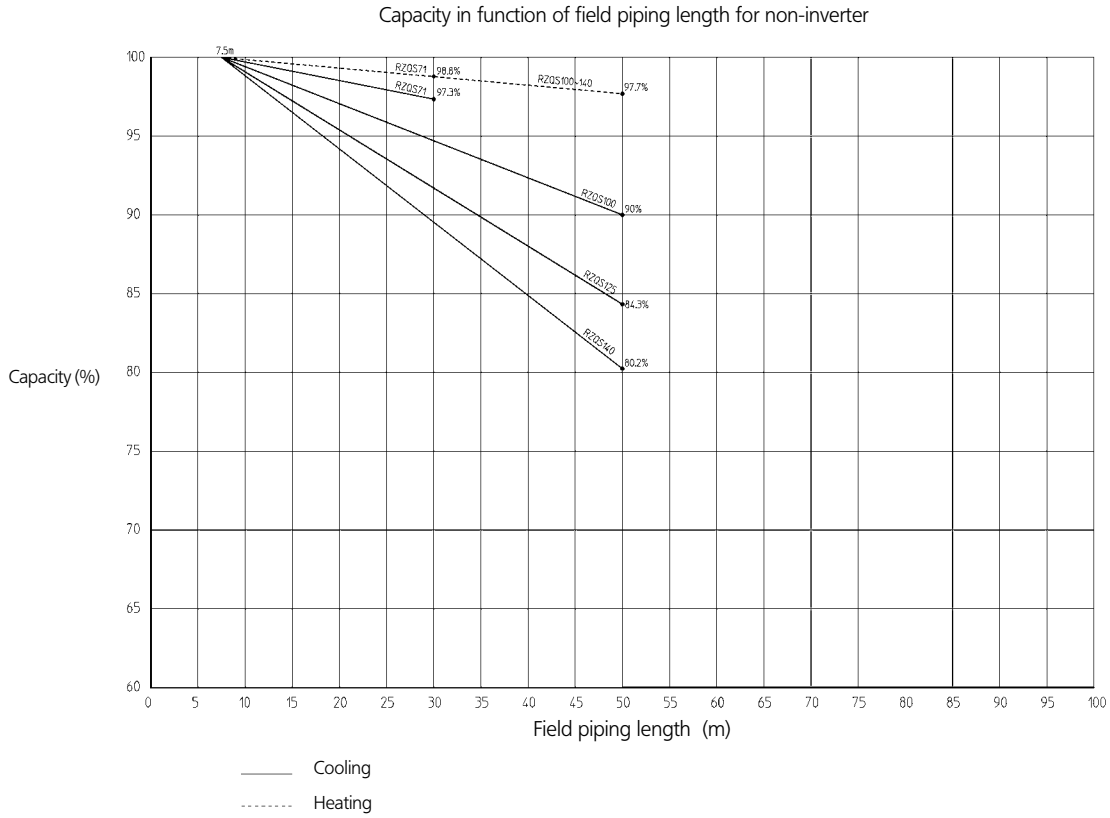
AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 2 Cooling capacity tables

RZQS71-140DV1

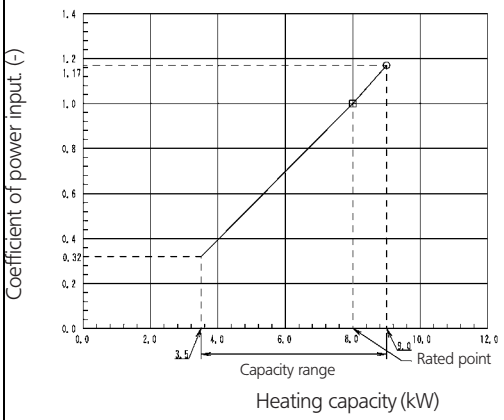


5 Capacity tables

5 - 3 Heating capacity tables

RZQS71DV1

Heating



Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB) -15 TC (kW)	-15 CPI (-)	-10 TC (kW)	-10 CPI (-)	-5 TC (kW)	-5 CPI (-)	0 TC (kW)	0 CPI (-)	6 TC (kW)	6 CPI (-)	10 TC (-)	10 CPI (-)
16.0	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13
18.0	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18
20.0	5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23
21.0	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25
22.0	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28
24.0	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32

3TW31712-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH71C	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
AFR (BF)	21 (0.17)	15.5 (0.19)	18 (0.08)	17 (0.10)	19 (0.08)	18 (0.16)

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35Cx2	FHQ35x2
AFR (BF)	10.5x2 (0.28x2)	10x2 (0.25x2)	16x2 (0.15x2)	13x2 (0.2x2)

10. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH71D	FCQ71C	FBQ71	FHQ71	FAQ71	FVQ71
Heating	2.16	2.35	2.25	2.75	2.49	2.49

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35Cx2	FHQ35x2
Heating	2.75	2.70	2.20	2.85

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

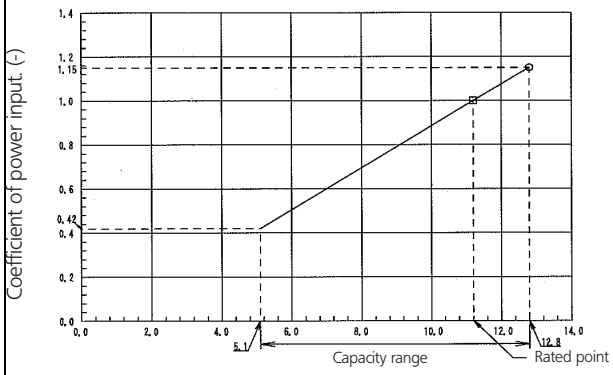
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQS100DV1

Heating



Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB) -15 TC (kW)	-15 CPI (-)	-10 TC (kW)	-10 CPI (-)	-5 TC (kW)	-5 CPI (-)	0 TC (kW)	0 CPI (-)	6 TC (kW)	6 CPI (-)	10 TC (-)	10 CPI (-)
16.0	7.16	0.87	7.91	0.92	8.66	0.96	9.41	1.01	12.8	1.06	13.8	1.12
18.0	7.15	0.90	7.90	0.95	8.65	1.00	9.39	1.05	12.8	1.10	13.8	1.16
20.0	7.15	0.94	7.89	0.99	8.64	1.04	9.38	1.09	12.8	1.15	13.8	1.21
21.0	7.14	0.96	7.89	1.01	8.63	1.06	9.38	1.11	12.8	1.17	13.8	1.23
22.0	7.14	0.98	7.88	1.03	8.63	1.08	9.37	1.14	12.8	1.20	13.7	1.25
24.0	7.13	1.02	7.87	1.07	8.62	1.12	9.36	1.17	12.8	1.24	13.7	1.30

3TW31722-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH100D	FCQ100C	FBQ100C	FHQ100	FAQ100	FVQ100
AFR (BF)	34 (0.17)	23.5 (0.16)	32 (0.13)	24 (0.14)	23 (0.10)	28 (0.19)

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35Cx2	FHQ35x2
AFR (BF)	12.5x2 (0.21x2)	12x2 (0.16x2)	16x2 (0.16x2)	13x2 (0.1x2)

(Triple)

Model	FCQ35Cx3	FFQ35x3	FBQ35Cx3	FHQ35x3
AFR (BF)	10.5x3 (0.28x3)	10x3 (0.25x3)	16x3 (0.15x3)	13x3 (0.2x3)

10. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH100D	FCQ100C	FBQ100C	FHQ100	FAQ100	FUQ100
Heating	2.95	3.28	3.07	3.85	3.49	3.49

(Twin)

Model	FCQ35Cx2	FFQ35x2	FBQ35x2	FHQ35x2
Heating	3.55	3.44	3.15	3.89

(Triple)

Model	FCQ35Cx3	FFQ35x3	FBQ35x3	FHQ35x3
Heating	3.55	3.44	3.15	3.89

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

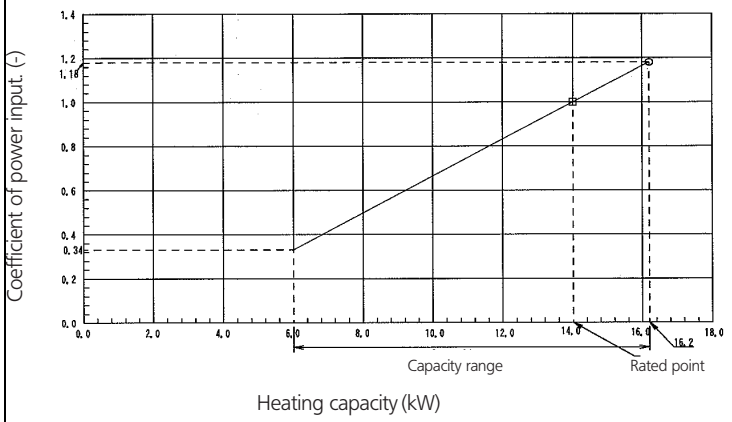
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQS125DV1

Heating



Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB) -15 TC (kW)	-15 CPI (-)	-10 TC (kW)	-10 CPI (-)	-5 TC (kW)	-5 CPI (-)	0 TC (kW)	0 CPI (-)	6 TC (kW)	6 CPI (-)	10 TC (-)	10 CPI (-)
16.0	8.83	0.89	9.76	0.94	10.7	0.99	11.6	1.04	16.2	1.09	17.5	1.14
18.0	8.82	0.93	9.74	0.98	10.7	1.03	11.6	1.08	16.2	1.13	17.5	1.19
20.0	8.81	0.97	9.73	1.02	10.7	1.07	11.6	1.12	16.2	1.18	17.5	1.24
21.0	8.81	0.99	9.73	1.04	10.6	1.09	11.6	1.14	16.2	1.20	17.5	1.26
22.0	8.80	1.00	9.72	1.05	10.6	1.11	11.6	1.16	16.2	1.23	17.5	1.29
24.0	8.79	1.04	9.71	1.10	10.6	1.15	11.5	1.21	16.2	1.27	17.4	1.33

3TW31732-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Heating capacity include the drop of frost formation.
8. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH125D	FCQ125C	FBQ125C	FHQ125	FDQ125	FVQ125
AFR (BF)	34 (0.19)	27.5 (0.19)	39 (0.16)	30 (0.13)	45 (0.25)	32 (0.16)

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60Cx2	FHQ60x2
AFR (BF)	13.5x2 (0.21x2)	15x2 (0.11x2)	18x2 (0.15x2)	17x2 (0.2x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50Cx3	FHQ50x3
AFR (BF)	12.5x3 (0.21x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.1x3)

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35Cx4	FHQ35x4
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.2x4)

9. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH125D	FCQ125C	FBQ125C	FHQ125	FAQ125	FUQ125
Heating	3.79	4.06	4.11	4.86	4.36	3.97

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Heating	4.68	4.34	4.19	4.84

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Heating	4.68	4.34	4.19	4.84

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Heating	4.68	4.34	4.19	4.84

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

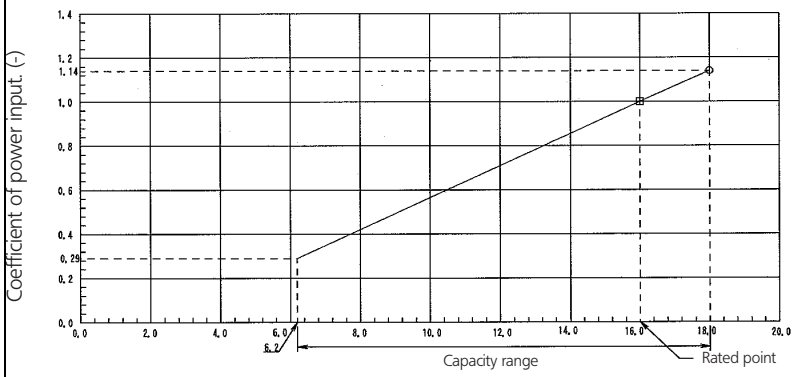
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQS140DV1

Heating



Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB) -15 TC (kW)	-15 CPI (-)	-10 TC (kW)	-10 CPI (-)	-5 TC (kW)	-5 CPI (-)	0 TC (kW)	0 CPI (-)	6 TC (kW)	6 CPI (-)	10 TC (-)	10 CPI (-)
16.0	9.82	0.86	10.8	0.91	11.9	0.95	12.9	1.00	18.0	1.05	19.5	1.11
18.0	9.80	0.90	10.8	0.94	11.8	0.99	12.9	1.04	18.0	1.09	19.4	1.15
20.0	9.79	0.94	10.8	0.98	11.8	1.03	12.9	1.08	18.0	1.14	19.4	1.20
21.0	9.79	0.95	10.8	1.00	11.8	1.05	12.8	1.10	18.0	1.16	19.4	1.22
22.0	9.78	0.97	10.8	1.02	11.8	1.07	12.8	1.12	18.0	1.19	19.4	1.24
24.0	9.77	1.00	10.8	1.06	11.8	1.11	12.8	1.17	18.0	1.23	19.4	1.29

3TW31742-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH140D	FCQ140C
AFR (BF)	34 (0.20)	27.5 (0.22)

(Twin)

Model	FCQH71Dx2	FCQ71Cx2	FBQ71Cx2	FHQ71x2	FAQ71x2
AFR (BF)	21x2 (0.17x2)	15.5x2 (0.19x2)	18x2 (0.08x2)	17x2 (0.1x2)	19x2 (0.08x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50Cx3	FHQ50x3
AFR (BF)	12.5x3 (0.21x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.1x3)

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35Cx4	FHQ35x4
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.2x4)

10. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH125D	FCQ125C
Heating	4.69	4.98

(Twin)

Model	FCQH71Dx2	FCQ71Cx2	FBQ71Cx2	FHQ71x2	FAQ71x2
Heating	5.26	5.46	5.06	5.70	5.54

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Heating	5.46	5.61	5.06	5.70

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Heating	5.46	5.61	5.06	5.70

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

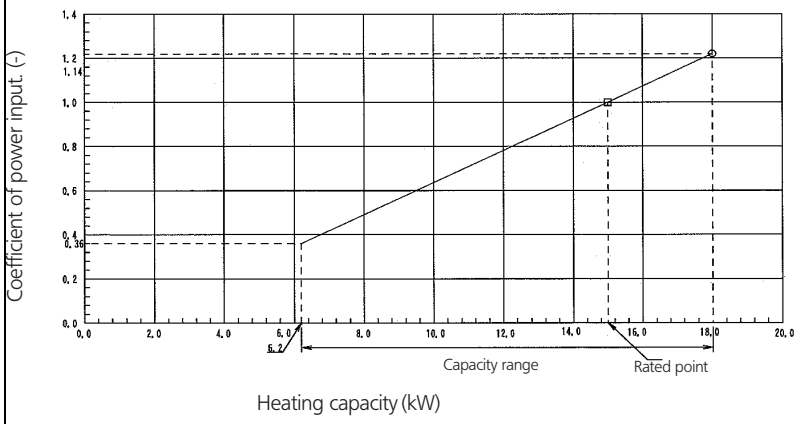
Caution:
TC and SHC are shown by kW

5 Capacity tables

5 - 3 Heating capacity tables

RZQS140DV1

Heating



Heating capacity

Indoor EDB (°C)	Outdoor temp. (°CDB) -15 TC (kW)	-15 CPI (-)	-10 TC (kW)	-10 CPI (-)	-5 TC (kW)	-5 CPI (-)	0 TC (kW)	0 CPI (-)	6 TC (kW)	6 CPI (-)	10 TC (-)	10 CPI (-)
16.0	9.82	0.92	10.8	0.97	11.9	1.02	12.9	1.07	18.0	1.12	19.5	1.18
18.0	9.80	0.97	10.8	1.01	11.8	1.06	12.9	1.12	18.0	1.17	19.4	1.23
20.0	9.79	1.00	10.8	1.05	11.8	1.11	12.9	1.16	18.0	1.22	19.4	1.28
21.0	9.79	1.02	10.8	1.07	11.8	1.12	12.8	1.18	18.0	1.24	19.4	1.31
22.0	9.78	1.04	10.8	1.09	11.8	1.15	12.8	1.20	18.0	1.27	19.4	1.33
24.0	9.77	1.07	10.8	1.13	11.8	1.19	12.8	1.25	18.0	1.32	19.4	1.38

3TW31742-3

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ◯ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. On the tables ▭ show rated capacity and rated coefficient of power input.
4. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
5. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
6. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
7. The value contains less than 5% error acording to indoor unit type.
8. Heating capacity include the drop of frost formation.
9. Air flow rate and BF are tabulated below.

(Pair)

Model	FBQ140C
AFR (BF)	41 (0.14)

10. Rated power input of each model is tabulated below.

(Pair)

Model	FBQ140C
Heating	4.67

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

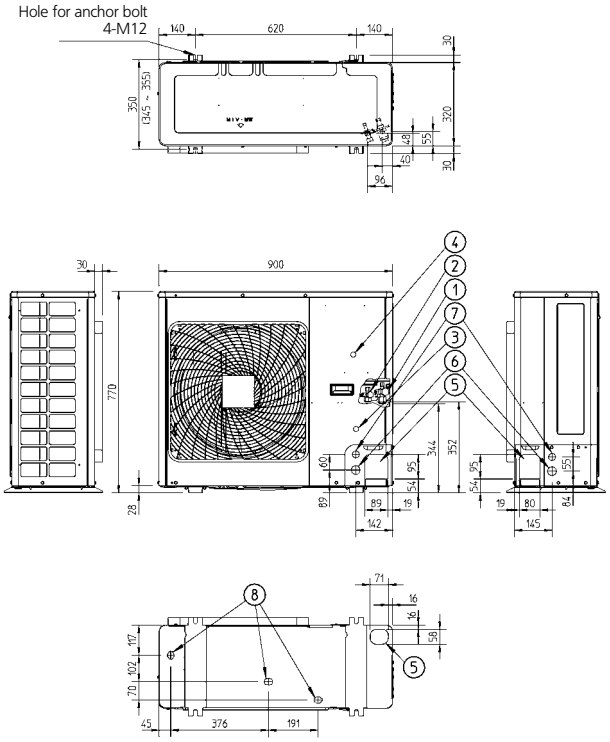
Caution:
TC and SHC are shown by kW

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

RZQS71DV1

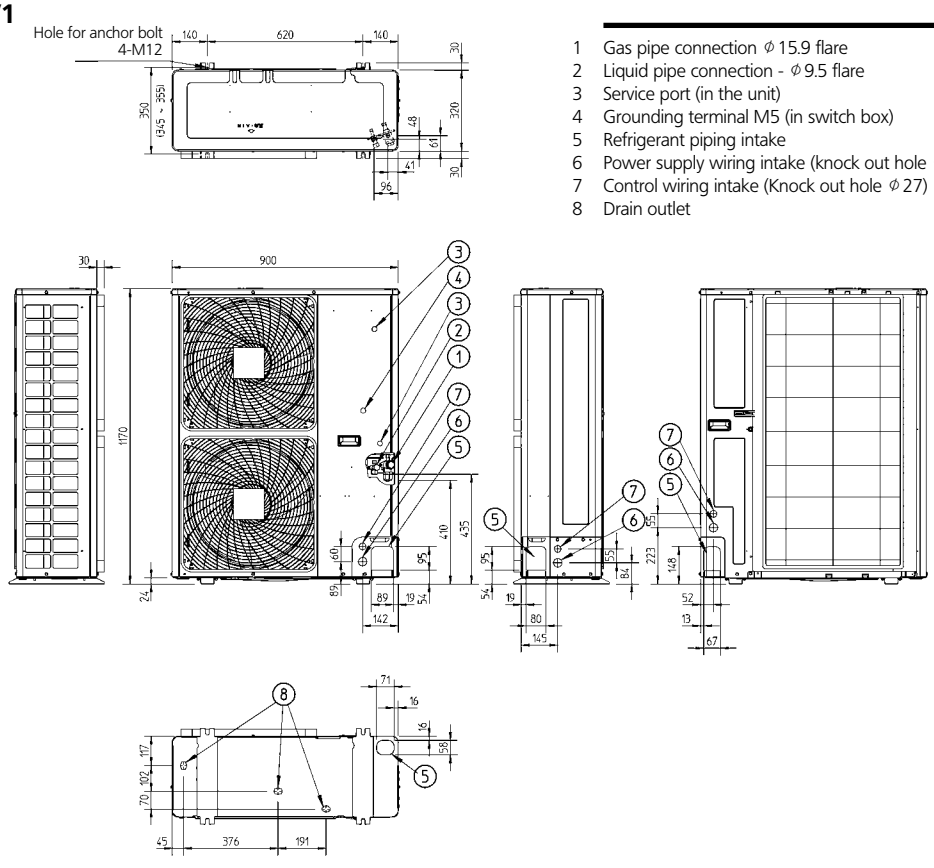
unit (mm)



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3TW25144-1A

RZQS100-125-140DV1



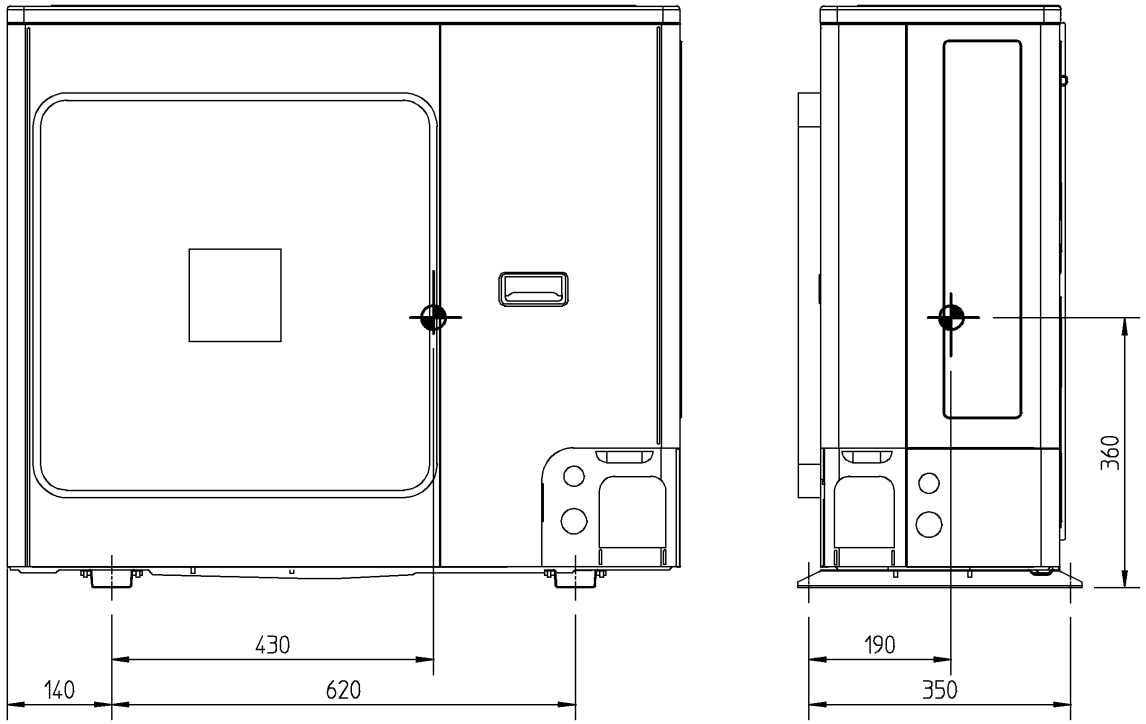
1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3TW26364-1

6 Dimensional drawing & centre of gravity

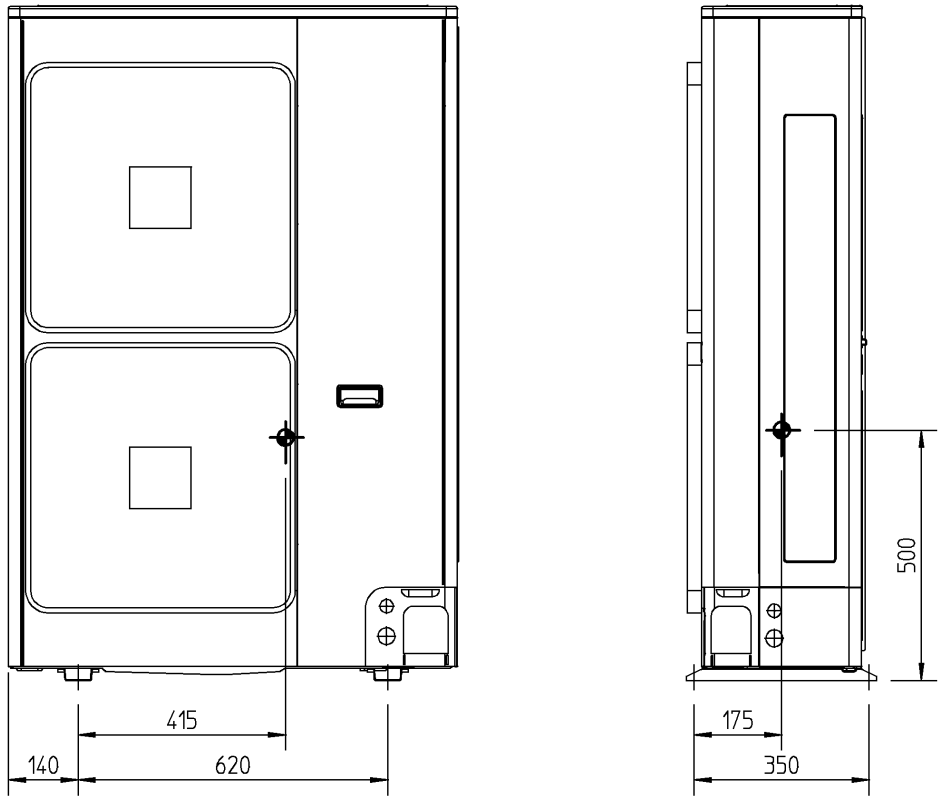
6 - 2 Centre of gravity

RZQS71DV1



4TW30469-3

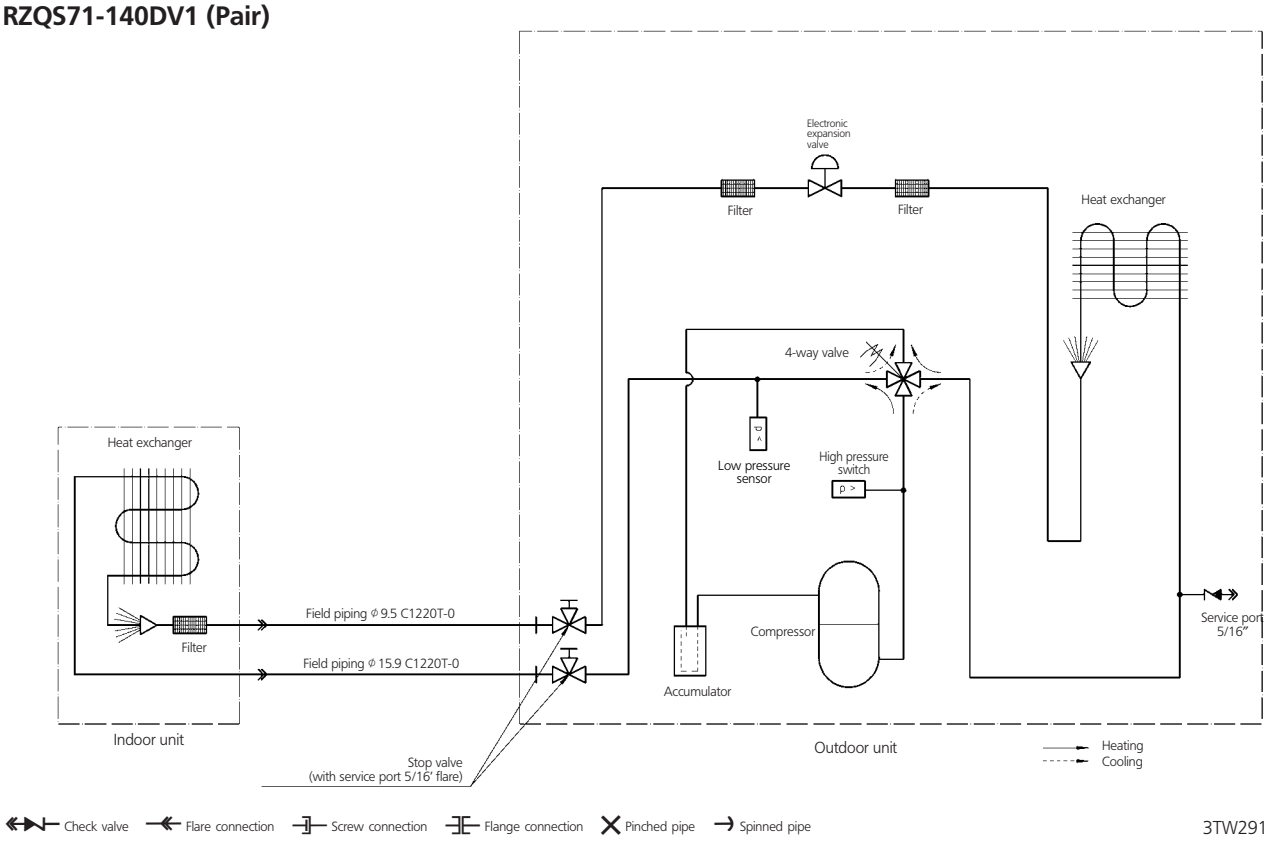
RZQS100,125,140DV1



4TW29169-4

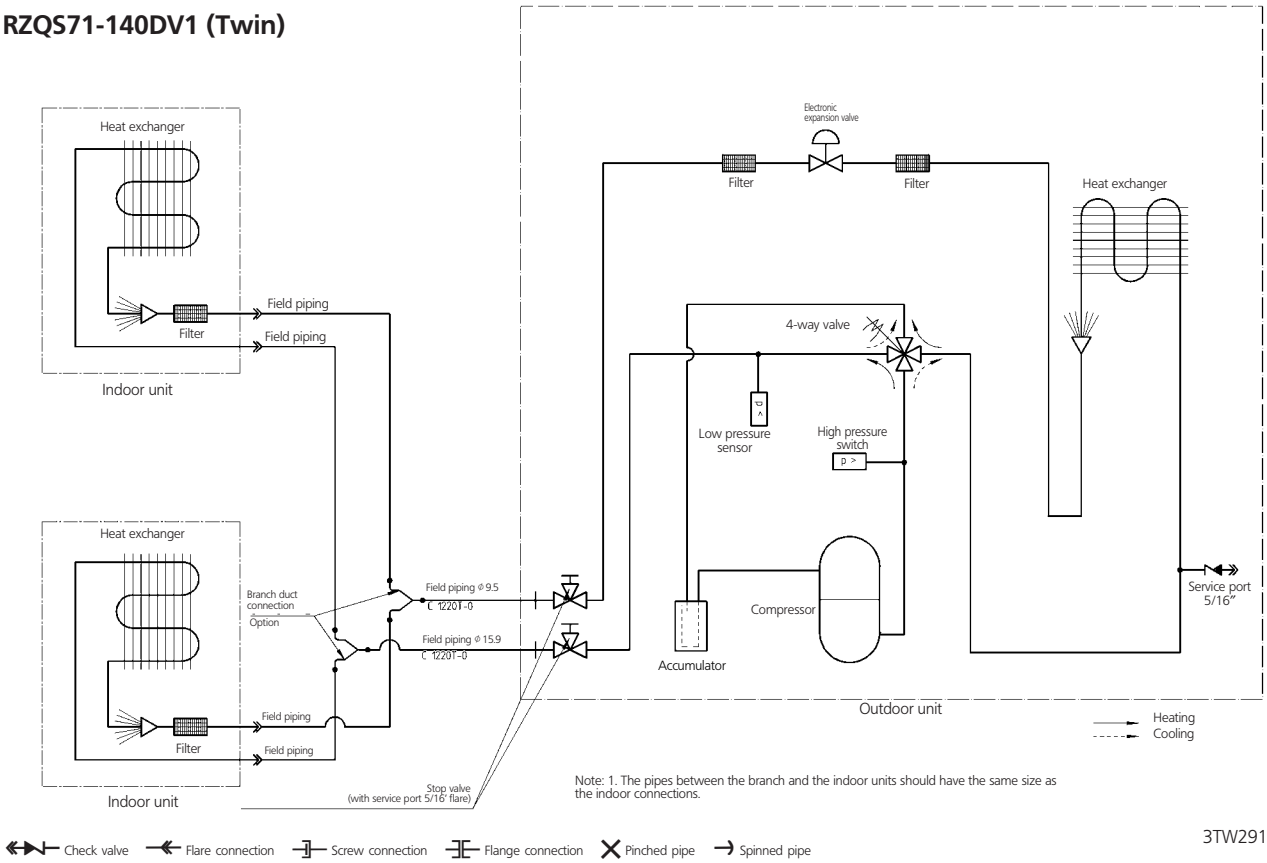
7 Piping diagram

RZQS71-140DV1 (Pair)



3TW29165-1

RZQS71-140DV1 (Twin)

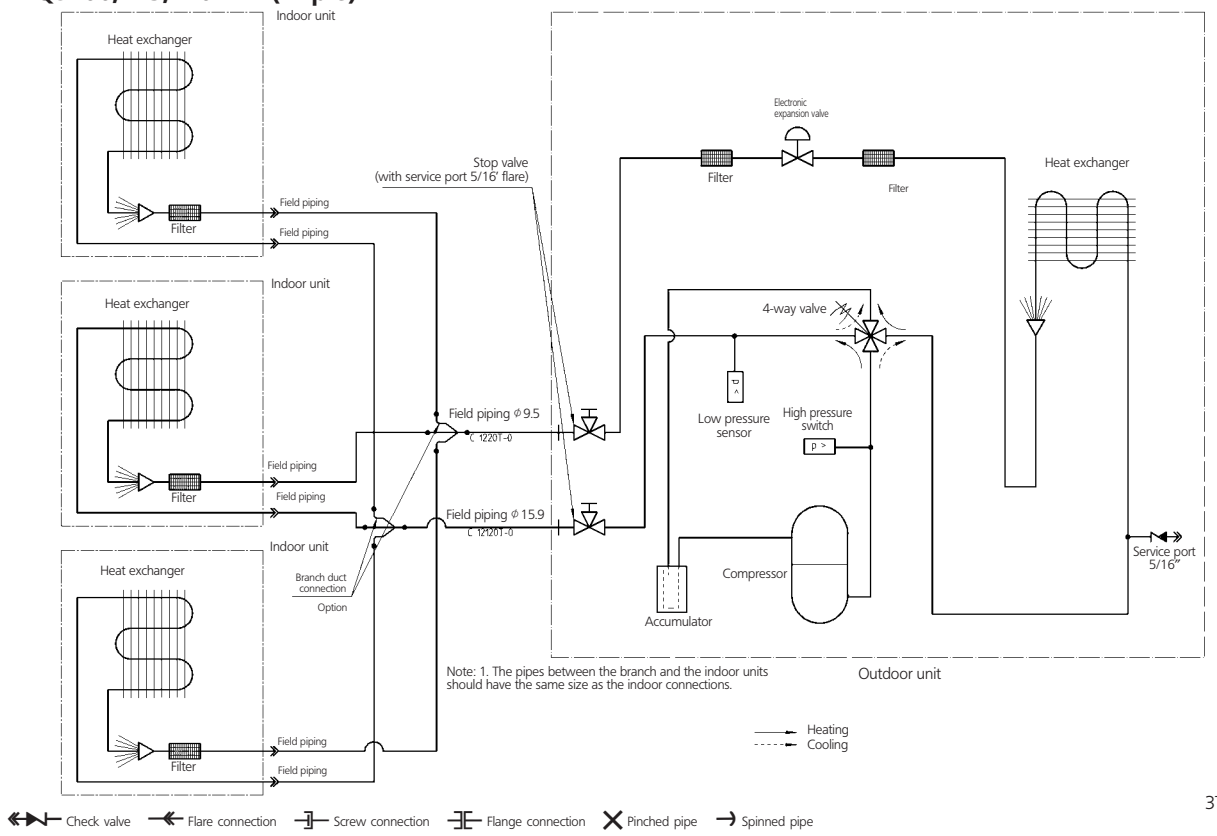


Note: 1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3TW29165-2

7 Piping diagram

RZQS100,125,140DV1 (Triple)

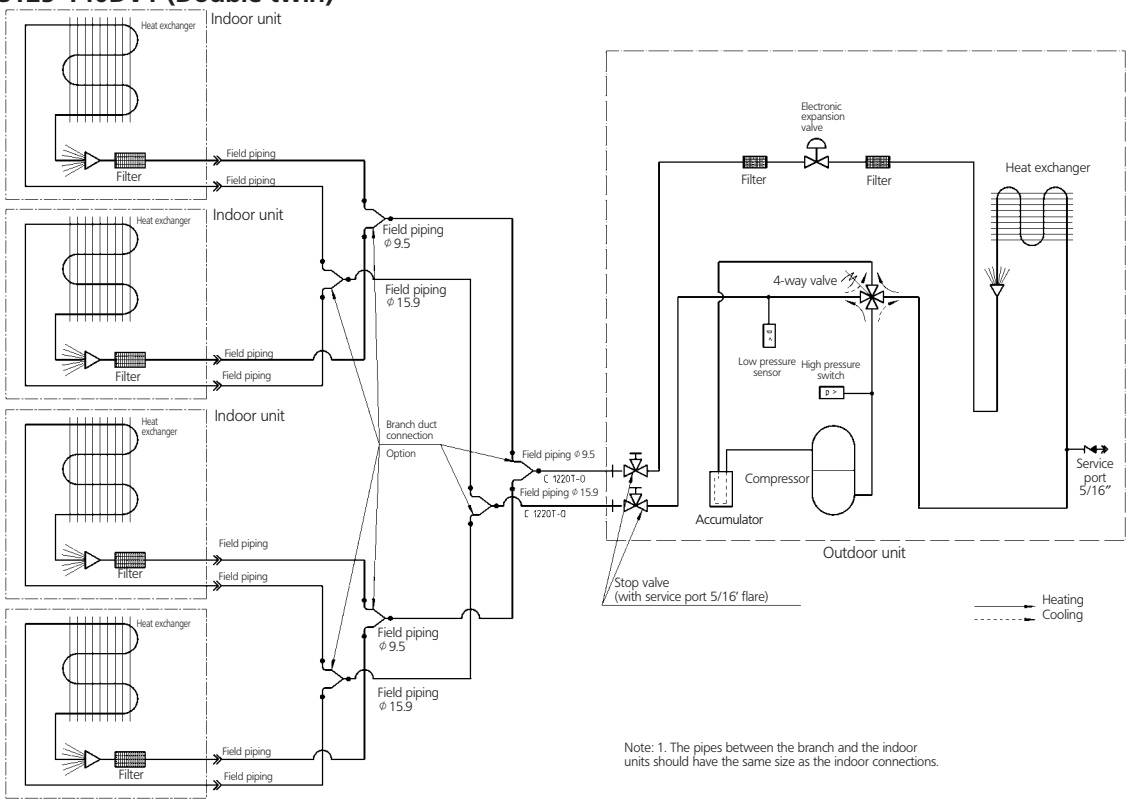


Note: 1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3TW29165-3

Check valve | Flare connection | Screw connection | Flange connection | Pinched pipe | Spinned pipe

RZQS125-140DV1 (Double twin)



Note: 1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3TW29165-4

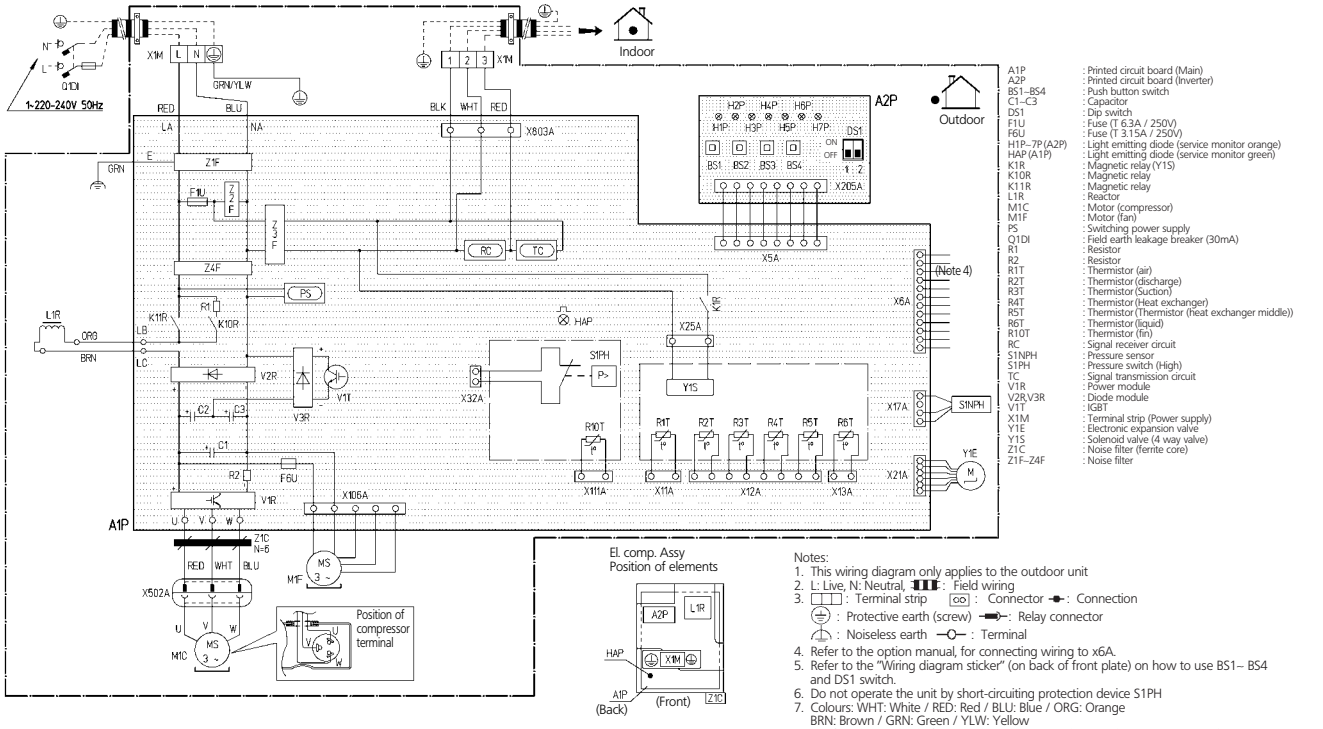
Check valve | Flare connection | Screw connection | Flange connection | Pinched pipe | Spinned pipe

8 Wiring diagram

8 - 1 Wiring diagram

8

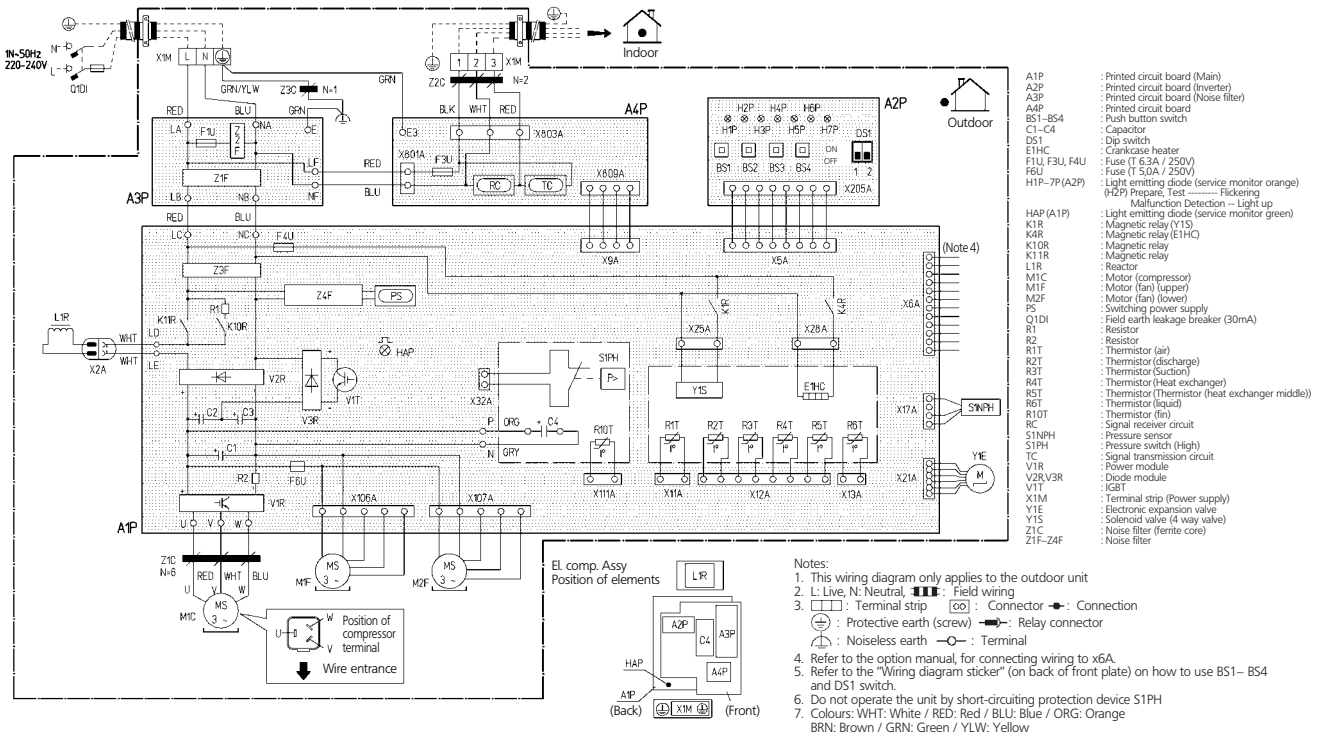
RZQS71DV1



Notes:
1. This wiring diagram only applies to the outdoor unit
2. L: Live, N: Neutral, : Field wiring
3. : Terminal strip : Connector : Connection
   : Protective earth (screw) : Relay connector
   : Noiseless earth : Terminal
4. Refer to the option manual, for connecting wiring to x6A.
5. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1~ BS4 and DS1 switch.
6. Do not operate the unit by short-circuiting protection device S1PH
7. Colours: WHT: White / RED: Red / BLU: Blue / ORG: Orange
   BRN: Brown / GRN: Green / YLW: Yellow
8. Confirm the method of setting the selector switches (DS1) by service manual.
   Factory setting of all switches: "OFF".

2TW30466-1B

RZQS100-140DV1


Indoor
Outdoor
1N~50Hz 220-240V
Q1DI
X1M
A1P
A2P
A3P
A4P
A1P : Printed circuit board (Main)
A2P : Printed circuit board (Inverter)
A3P : Printed circuit board (Noise filter)
A4P : Printed circuit board
BS1~BS4 : Push button switch
C1~C4 : Capacitor
DS1 : Dip switch
E1HC : Crankcase heater
F1U, F3U, F4U : Fuse (T 6.3A / 250V)
F6U : Fuse (T 5.0A / 250V)
H1P~7P(A2P) : Light emitting diode (service monitor orange)
(H2P) Prepare, Test ---------- Flickering
Malfunction Detection -- Light up
HAP(A1P) : Light emitting diode (service monitor green)
K1R : Magnetic relay(Y1S)
K4R : Magnetic relay(E1HC)
K10R : Magnetic relay
K11R : Magnetic relay
L1R : Reactor
M1C : Motor (compressor)
M1F : Motor (fan) (upper)
M2F : Motor (fan) (lower)
PS : Switching power supply
Q1DI : Field earth leakage breaker (30mA)
R1 : Resistor
R2 : Resistor
R1T : Thermistor (air)
R2T : Thermistor (discharge)
R3T : Thermistor (Suction)
R4T : Thermistor (Heat exchanger)
R5T : Thermistor (Thermistor (heat exchanger middle))
R6T : Thermistor (liquid)
R10T : Thermistor (fin)
RC : Signal receiver circuit
S1NPH : Pressure sensor
S1PH : Pressure switch (High)
TC : Signal transmission circuit
V1R : Power module
V2R,V3R : Diode module
V1T : IGBT
X1M : Terminal strip (Power supply)
Y1E : Electronic expansion valve
Y1S : Solenoid valve (4 way valve)
Z1C : Noise filter (ferrite core)
Z1F~Z4F : Noise filter
(Note 4)
Position of compressor terminal
Wire entrance
El. comp. Assy Position of elements
(Front)
(Back)

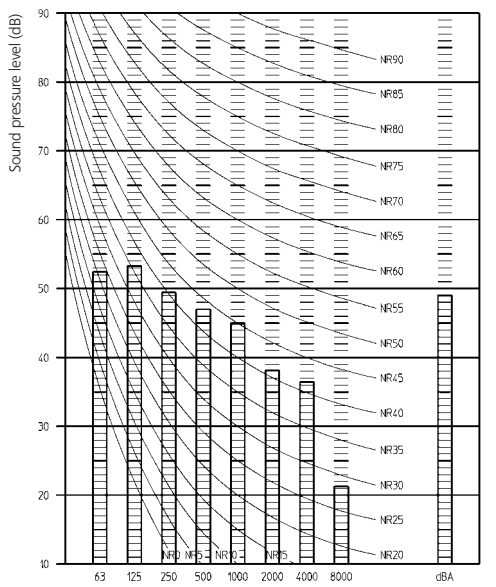
Notes:
1. This wiring diagram only applies to the outdoor unit
2. L: Live, N: Neutral, : Field wiring
3. : Terminal strip : Connector : Connection
   : Protective earth (screw) : Relay connector
   : Noiseless earth : Terminal
4. Refer to the option manual, for connecting wiring to x6A.
5. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1~ BS4 and DS1 switch.
6. Do not operate the unit by short-circuiting protection device S1PH
7. Colours: WHT: White / RED: Red / BLU: Blue / ORG: Orange
   BRN: Brown / GRN: Green / YLW: Yellow
8. Confirm the method of setting the selector switches (DS1) by service manual.
   Factory setting of all switches: "OFF".

2TW29166-2

9 Sound data

9 - 1 Sound pressure spectrum

RZQS71DV1 - Cooling

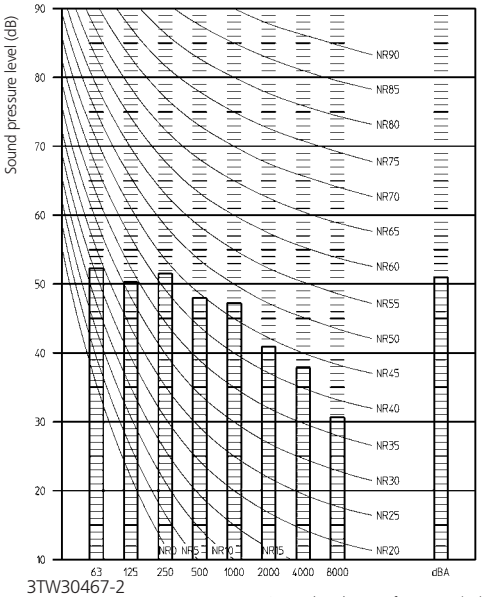


3TW30467-1

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

RZQS71DV1 - Heating

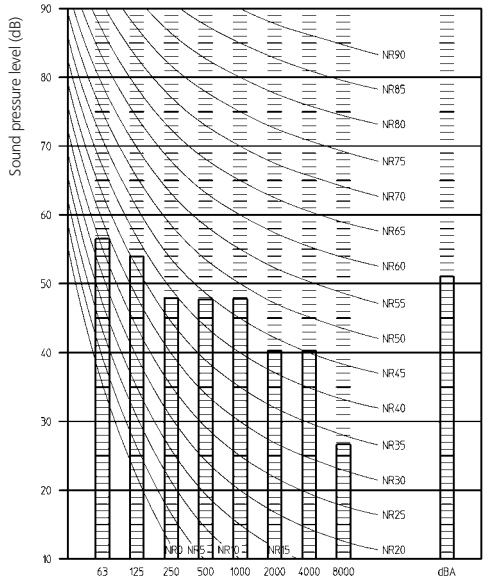


3TW30467-2

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

RZQS100DV1 - Cooling

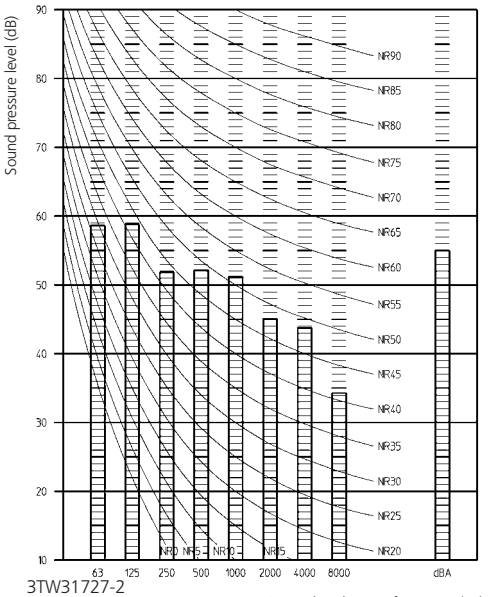


3TW31727-1

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

RZQS100DV1 - Heating



3TW31727-2

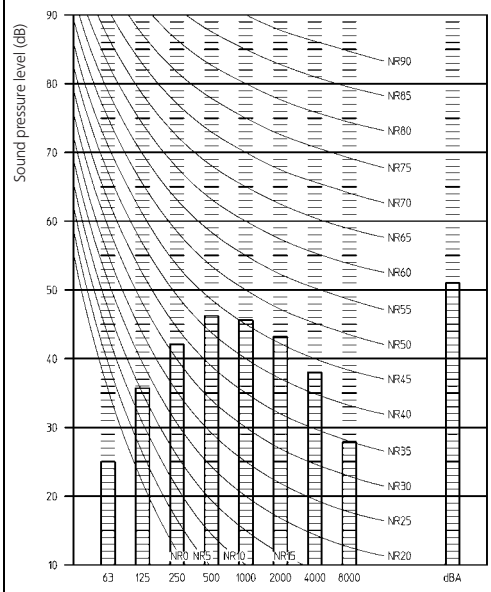
NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

9 Sound data

9 - 1 Sound pressure spectrum

RZQS125DV1 - Cooling



3TW29167-1

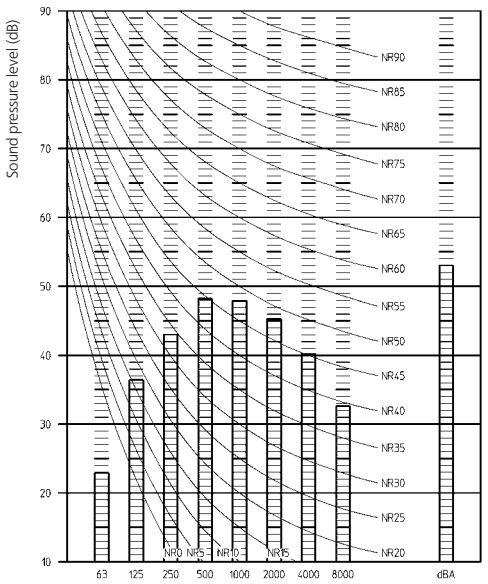
Octave band center frequency (Hz)

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

Measuring location (discharge side)

RZQS125DV1 - Heating



3TW29167-2

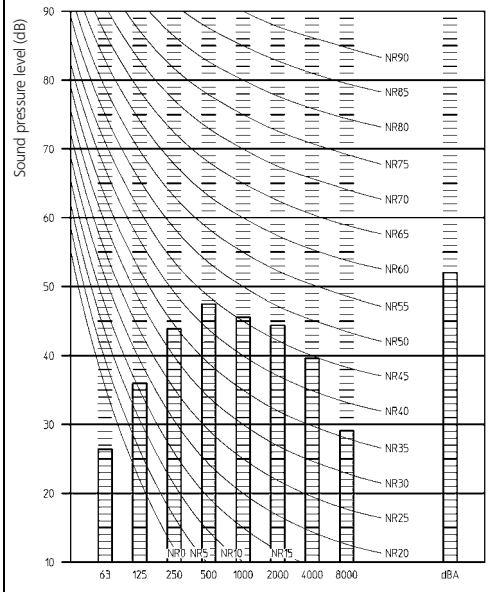
Octave band center frequency (Hz)

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

Measuring location (discharge side)

RZQS140DV1 - Cooling



3TW29177-1

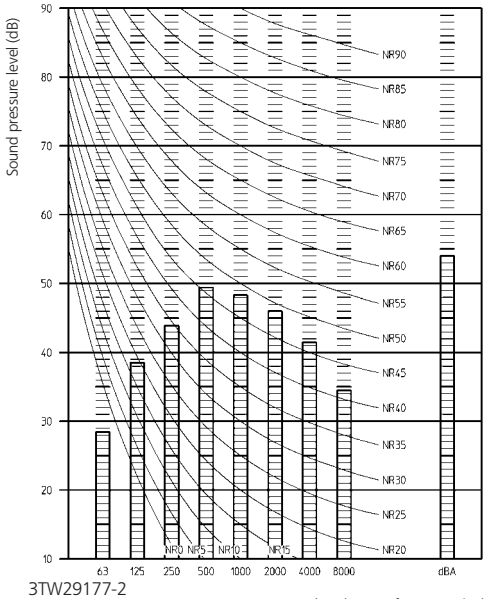
Octave band center frequency (Hz)

NOTES

1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

Measuring location (discharge side)

RZQS140DV1 - Heating



3TW29177-2

Octave band center frequency (Hz)

NOTES

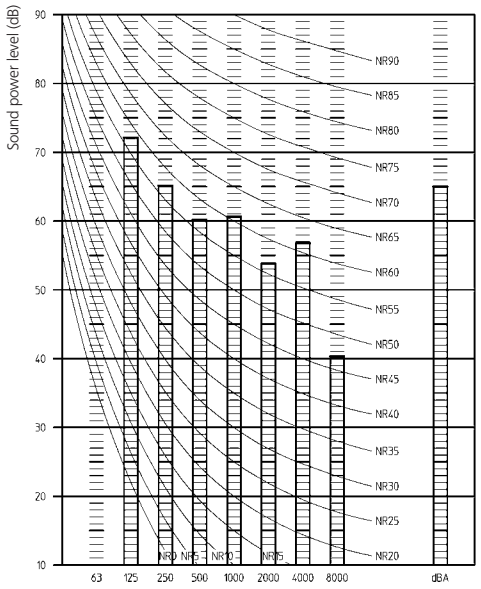
1 Data is valid at free field condition
2 Data is valid at nominal conditions.
3 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
4 Reference acoustic pressure 0dB = 20µPa

Measuring location (discharge side)

9 Sound data

9 - 2 Sound power spectrum

RZQS71DV1



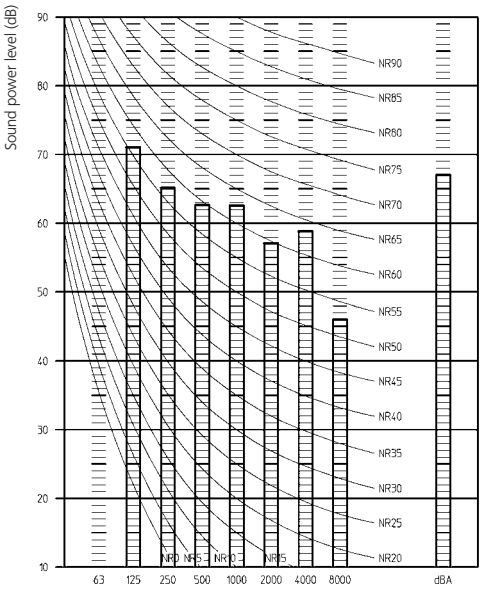
3TW30467-3

Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

RZQS100DV1



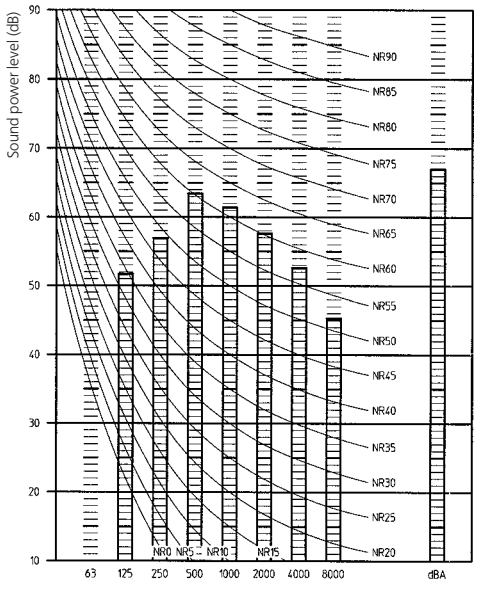
3TW0477-3

Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

RZQS125DV1



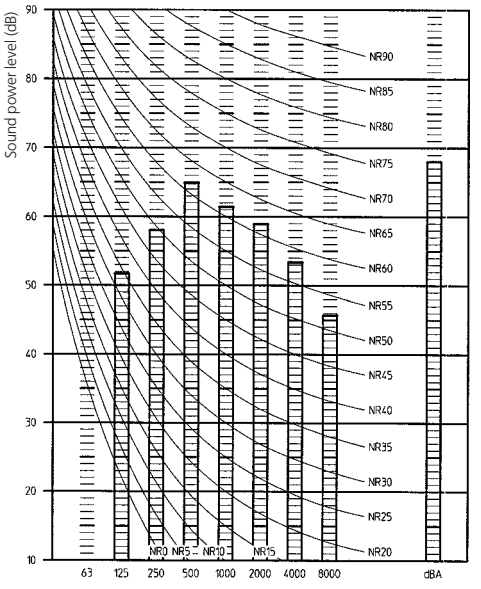
3TW29167-3

Octave band center frequency (Hz)

NOTES

1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

RZQS140DV1



3TW29177-3

Octave band center frequency (Hz)

NOTES

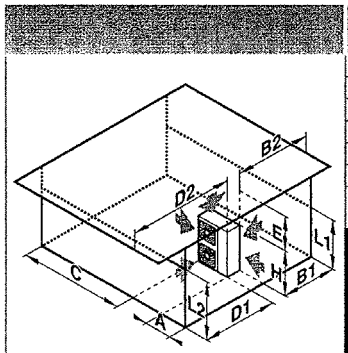
1 dB(A) = A-weighted sound pressure level (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

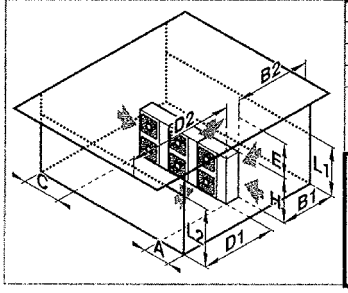
10 Installation

10 - 1 Installation method

RZQS71-140DV1

A. Non stacked installation





								A	B1	B2	C	D1	D2	E	L1/L2	
✓									≥50(100)							
✓		✓	✓					≥100	≥100		≥100					
✓				✓					≥100				≤500	≥1000		
✓		✓	✓	✓				≥150	≥150		≥150		≤500	≥1000		
	✓											≥500				
	✓			✓						≤500		≥500		≥1000		
✓	✓				L1<L2				≥50(100)			≥500				
					L2<L1				≥50(100)			≥500				
✓	✓			✓	L1<L2	L1≤H			≥150(250)	≤500		≥750		≥1000	0<L1≤1/2H	1
												≥1000			0<L1≤1/2H	
						H<L1			L1≤H							
					L2<L1	L2≤H			≥50(100)			≥500 (1000)	≥500	≥1000	0<L2≤1/2H	
									≥100(200)						1/2H<L2≤H	
						H<L2			L2≤H							
✓		✓	✓					≥200	≥200(300)		≥1000					
✓		✓	✓	✓				≥200	≥200(300)		≥1000		≤500	≥1000		
	✓											≥1000				
	✓			✓						≤500		≥1000		≥1000		
✓	✓				L1<L2				≥200(300)			≥1000				
					L2<L1				≥150(250)			≥1000 (1500)			0<L2≤1/2H	
									≥200(300)						1/2H<L2≤H	
✓	✓			✓	L1<L2	L1≤H			≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H	1
												≥1250			1/2H<L1≤H	
						H<L1			L1≤H							
					L2<L1	L2≤H			≥150(250)			≥1000 (1500)	≤500	≥1000	0<L2≤1/2H	2
									≥200(300)						1/2H<L2≤H	
						H<L2			L2≤H							

Legend

- Suction side obstacle
- Discharge side obstacle
- Left side obstacle
- Right side obstacle
- Top side obstacle
- ✓ Obstacle is present

In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

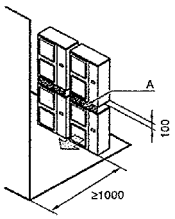
In these cases, only 2 units can be installed.

This situation is not allowed.

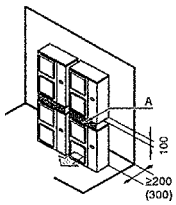
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



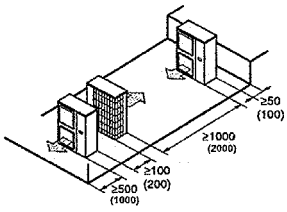
2. Obstacles exist in front of the air inlet



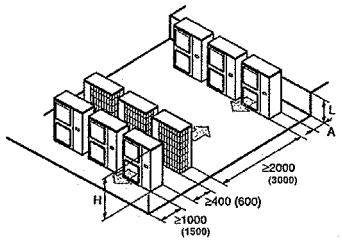
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



2. Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

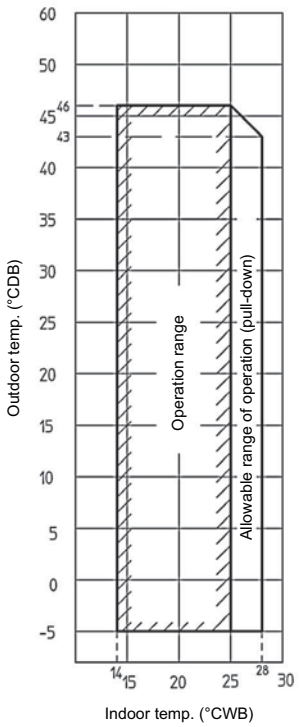
	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

3TW26739-4

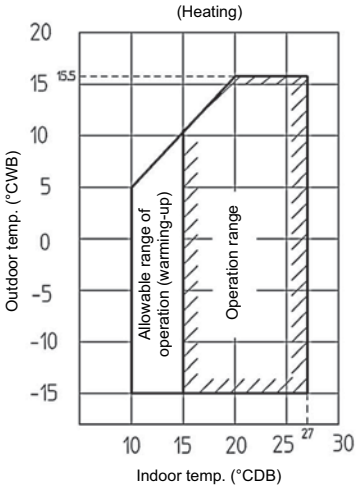
11 Operation range

RZQS71-140DV1

(Cooling)



(Heating)



NOTE

1 Depending on operation and istallation conditions. The indoor unit can change over to freeze-up operation (indoor de-icing)
2 To reduce the freeze-up operation (indoor de-icing) frequency it is recommended to install the outdoor unit in a location not exposed to wind.

3TW29063-1D